

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/932,888C
Source: /FW/6
Date Processed by STIC: 8/30/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 08/30/2005

PATENT APPLICATION: US/09/932,888C

TIME: 15:23:07

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\08302005\I932888C.raw

3 <110> APPLICANT: PURINA MILLS, LLC
 4 PURDUE RESEARCH FOUNDATION
 6 <120> TITLE OF INVENTION: PORCINE LEPTIN PROTEIN, ANTISENSE, AND ANTIBODY
 8 <130> FILE REFERENCE: LL31.12-0016
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/932,888C
 11 <141> CURRENT FILING DATE: 2001-08-20
 13 <150> PRIOR APPLICATION NUMBER: U.S. Patent Application No. 08/692,922
 14 <151> PRIOR FILING DATE: 1996-07-31
 16 <160> NUMBER OF SEQ ID NOS: 9
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 5917
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Sus scrofa
 26 <220> FEATURE:
 27 <221> NAME/KEY: gene
 28 <222> LOCATION: (1)..(5917)
 29 <223> OTHER INFORMATION: Nucleotide sequence of the porcine leptin gene. CDS Location:
 30 join (942..1085,3400..3753)
 32 <220> FEATURE:
 33 <221> NAME/KEY: misc_feature
 34 <222> LOCATION: (2943)..(2944)
 35 <223> OTHER INFORMATION: n is a, c, g, or t
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 43 <221> NAME/KEY: misc_feature
 44 <222> LOCATION: (3037)..(3037)
 45 <223> OTHER INFORMATION: n is a, c, g, or t
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 56 ggtacctagc acggcatctg acatattatc agatcttcca caaaggccag tttacgggtg 300
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 62 tctctaatagc gaggggtggt atagagtaca tttcataaca cctttaaagc tctttcacac 480
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 66 gggagtcctt agcagttatg ggatatgcct gaagtcgtgc agctagtaaa tggctggatt 600
 68 caaaccagac ctcaaaagcc tgccctgtttg ctcatgcccc ctgccccgac tgcccactct 660

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72 ctccccaaagg aatgcttttc attaacatat gtctaggtaa tgaattatct tgactctgag 780
74 gaggccatag cacatgccgt aacgcgcagc ctcctttgat ctgcatctga ggctgtggct 840
76 ggtaacgggc gtggggaggg ggcgttcgt gagaccccag ggacacgcca tgtgtgggtc 900
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88 cccaccccc ccaaccagct gcctttgctc ctccgcttcc ctacccgcac ccccccagct 1260
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238 taacagcaga ctgggtggcaa accaggacta gaacctgggt cctctgaccc ctagagtcag 5760
240 tgtcccctga gccagctagt gttctctggg gacgggaaca ggggtgggca gggagtccag 5820
242 gaagtgtttg ctggaagagc ggagtttcca ggctgatttt gcaggagggtg aggggaagtgg 5880
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247 <210> SEQ ID NO: 2

248 <211> LENGTH: 501

249 <212> TYPE: DNA

250 <213> ORGANISM: Sus scrofa

253 <220> FEATURE:

254 <221> NAME/KEY: misc_feature

255 <222> LOCATION: (1)..(501)

256 <223> OTHER INFORMATION: Nucleotide sequence of the entire coding region of porcine leptin

257 (i.e. signal peptide and secreted protein)

259 <400> SEQUENCE: 2

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262 gccgtgccca tctggagagt ccaggatgac accaaaaccc tcatcaagac gattgtcacc      120
264 aggatcagtg acatttcaca catgcagtct gtctcctcca aacagagggg caccggtttg      180
266 gacttcatcc ctgggctcca tctgtcctg agtttgtcca agatggacca gaccctggcg      240
268 atctaccaac agatcctcac cagtctgcct tccagaaatg tgatccaaat atcgaatgac      300
270 ctggagaacc tccgggacct tctccacctg ctggcctcct ccaagagctg ccccttgccc      360
272 agcagggccc tggagacctt ggagagcctg ggcggcgtcc tggaagcctc cctctactcc      420
274 acggagggtg tggccctgag caggctgcag ggggctctgc aggacatgct gcggcagctg      480
276 gacctcagcc ctggctgctg a                                     501

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279 <210> SEQ ID NO: 3

280 <211> LENGTH: 166

281 <212> TYPE: PRT

282 <213> ORGANISM: Sus scrofa

285 <220> FEATURE:

W--> 286 <221> NAME/KEY: Protein

287 <222> LOCATION: (1)..(166)

288 <223> OTHER INFORMATION: Amino acid translation of the entire coding region of porcine

289 leptin (i.e. signal peptide and secreted protein)

291 <400> SEQUENCE: 3

293 Met Arg Cys Gly Pro Leu Cys Arg Phe Leu Leu Ala Leu Ala Tyr Leu

294 1 5 10 15

297 Ser Tyr Val Glu Ala Val Pro Ile Trp Arg Val Gln Asp Asp Thr Lys

298 20 25 30

301 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Ser Asp Ile Ser His Met

302 35 40 45

305 Gln Ser Val Ser Ser Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro

306 50 55 60

309 Gly Leu His Pro Val Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala

310 65 70 75 80

313 Ile Tyr Gln Gln Ile Leu Thr Ser Leu Pro Ser Arg Asn Val Ile Gln

314 85 90 95

317 Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala

318 100 105 110

321 Ser Ser Lys Ser Cys Pro Leu Pro Ser Arg Ala Leu Glu Thr Leu Glu

322 115 120 125

325 Ser Leu Gly Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val Val

326 130 135 140

329 Ala Leu Ser Arg Leu Gln Gly Ala Leu Gln Asp Met Leu Arg Gln Leu

330 145 150 155 160

333 Asp Leu Ser Pro Gly Cys

334 165

337 <210> SEQ ID NO: 4

338 <211> LENGTH: 435

339 <212> TYPE: DNA

340 <213> ORGANISM: Sus scrofa

343 <220> FEATURE:

344 <221> NAME/KEY: misc_feature

345 <222> LOCATION: (1)..(435)

346 <223> OTHER INFORMATION: Nucleotide sequence of the coding region of porcine leptin

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347 corresponding to the secreted porcine leptin protein

349 <400> SEQUENCE: 4

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350 gtgcccattct ggagagtcca ggatgacacc aaaaccctca tcaagacgat tgtcaccagg      60
352 atcagtgcaca ttccacacat gcagtgctgtc tcctccaaac agagggtcac cggtttggac      120
354 ttcatccctg ggctccatcc tgtcctgagt ttgtccaaga tggaccagac cctggcgatc      180
356 taccaacaga tcctcaccag tctgccttcc agaaatgtga tccaaatatc gaatgacctg      240
358 gagaacctcc gggaccttct ccacctgctg gcctcctcca agagctgccc cttgcccagc      300
360 agggccctgg agaccttgga gagcctgggc ggcgtcctgg aagcctccct ctactccacg      360
362 gaggtggtgg ccctgagcag gctgcagggg gctctgcagg acatgctgcg gcacgtggac      420
364 ctcaagccctg gctgc
366

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367 <210> SEQ ID NO: 5

368 <211> LENGTH: 145

369 <212> TYPE: PRT

370 <213> ORGANISM: Sus scrofa

373 <220> FEATURE:

W--> 374 <221> NAME/KEY: Protein

375 <222> LOCATION: (1)..(145)

376 <223> OTHER INFORMATION: Amino acid translation of porcine leptin cDNA corresponding to

377 the secreted porcine leptin protein

379 <400> SEQUENCE: 5

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381 Val Pro Ile Trp Arg Val Gln Asp Asp Thr Lys Thr Leu Ile Lys Thr
382 1      5      10      15
385 Ile Val Thr Arg Ile Ser Asp Ile Ser His Met Gln Ser Val Ser Ser
386      20      25      30
389 Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His Pro Val
390      35      40      45
393 Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala Ile Tyr Gln Gln Ile
394      50      55      60
397 Leu Thr Ser Leu Pro Ser Arg Asn Val Ile Gln Ile Ser Asn Asp Leu
398 65      70      75      80
401 Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala Ser Ser Lys Ser Cys
402      85      90      95
405 Pro Leu Pro Ser Arg Ala Leu Glu Thr Leu Glu Ser Leu Gly Gly Val
406      100     105     110
409 Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser Arg Leu
410      115     120     125
413 Gln Gly Ala Leu Gln Asp Met Leu Arg His Val Asp Leu Ser Pro Gly
414      130     135     140
417 Cys
418 145

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421 <210> SEQ ID NO: 6

422 <211> LENGTH: 504

423 <212> TYPE: DNA

424 <213> ORGANISM: Homo sapiens

427 <220> FEATURE:

W--> 428 <221> NAME/KEY: DNA

429 <222> LOCATION: (1)..(504)

430 <223> OTHER INFORMATION: Nucleotide sequence of human leptin protein

432 <400> SEQUENCE: 6

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/932,888C

DATE: 08/30/2005
TIME: 15:23:08

Input Set : A:\PTO.SR.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2943,2944,2983,3037

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2940
M:341 Repeated in SeqNo=1
L:286 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:374 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:428 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:462 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7